MINI PROJECT

REPORT ON

"HIGH_WAY_INN"

Submitted By

Mr. Vivek Vishnu Shivane (21178)

Ms. Diksha Santosh Yadav (21204)

Mr. Akshay Sahebrao Udhane (21192)

Ms. Shivani Umesh Ladage (21110)

Mr. Shrikrushna Kondiba Mantalwad (21120)

Under the Guidance of

Prof. Mrs. Leena Patil

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INTRODUCTION

Now a day, we see in Hotels there are some workers who handles customers. For that we need lot of manpower. Sometimes Hotel's staff face many problems to handle number of orders which leads to many financial problems.

To reduce this type of financial problems and lack of manpower we are introducing our project. It will come in action to give better service for customers. In India, almost every system is becoming digital, but hotels are still searching this type of digital project to overcome these problems. To make hotels digital and well developed we made our project Digital Menu Ordering System.

NEED OF THE SYSTEM

Now India is digitally growing. Many restaurants are using same menu card many years. For the updating of menu card, they just use the white paper or cello tape. when the restaurant is fully occupied waiters are also get confused. They serve the food for wrong table.so we developed this system digital menu ordering system.

To avoid delay in ordering process, wireless communication can be used here to replace the waiter who manually delivering the order to kitchen. Currently due to an increased literacy, awareness of advance communication technology among people, they are crazy about the latest technology and they are eager to automated their routine tasks. So, introducing new technology and new approach in conventional food ordering system will lead to improved experience of a customer

SCOPE OF THE SYSTEM

Today, in this fast-moving world everyone has insufficient time. Everyone wants to complete their work very fast and in short period of time. This system will increase quality and speed of service. This system will also increase customer's attraction for that place. Implementing this system will give a cost-efficient opportunity to give your customers an experience of personalized service, where they can choose what they want for dining and they can also give order, payment and feedback. Now a day, web services technology is widely used for integrate heterogeneous systems and developed new applications. Here an application of integration of hotel management systems by web services technology is presented. There is a major scope in enhancing the visual experience by replacing paper menu with electronic menu card.

To avoid delay in ordering process, wireless communication can be used here to replace the waiter who manually delivering the order to kitchen. Currently due to an increased literacy, awareness of advance communication technology among people, they are crazy about the latest technology and they are eager to automated their routine tasks. So, introducing new technology and new approach in conventional food ordering system will lead to improved experience of a customer

SYSTEM REQUIREMENT

Hardware:

- Intel® Core™ 2 Duo
- RAM: 1 GB
- Keyboard
- Monitor
- Mouse
- Hard disk: 20GB

Software:

- Operating System -windows
- Front-end: JAVA
- Back-end: MYSQL

Details Description of Technology Used

We have used here java for front end. Java is a programming language and computing platform first released by Sun Microsystems in 1995. There are lots of applications and websites that will not work unless you have Java installed, and more are created every day. Java is fast, secure, and reliable.

We have use MySQL for backend. MySQL uses a standard form of the well-known SQL data language. MySQL is very friendly with PHP, the most popular language for web development. MySQL supports large databases, up to 50 million rows or more in a table.

4 PROPOSED SYSTEM

The proposed system will solve all the problems they are facing now. This software is designed such way that it will generate a slip of the bill by the customer. So there not much worries. Customer can also call waiter from the table.

It will be easy to order the items, and also the cancellation of the items is available.

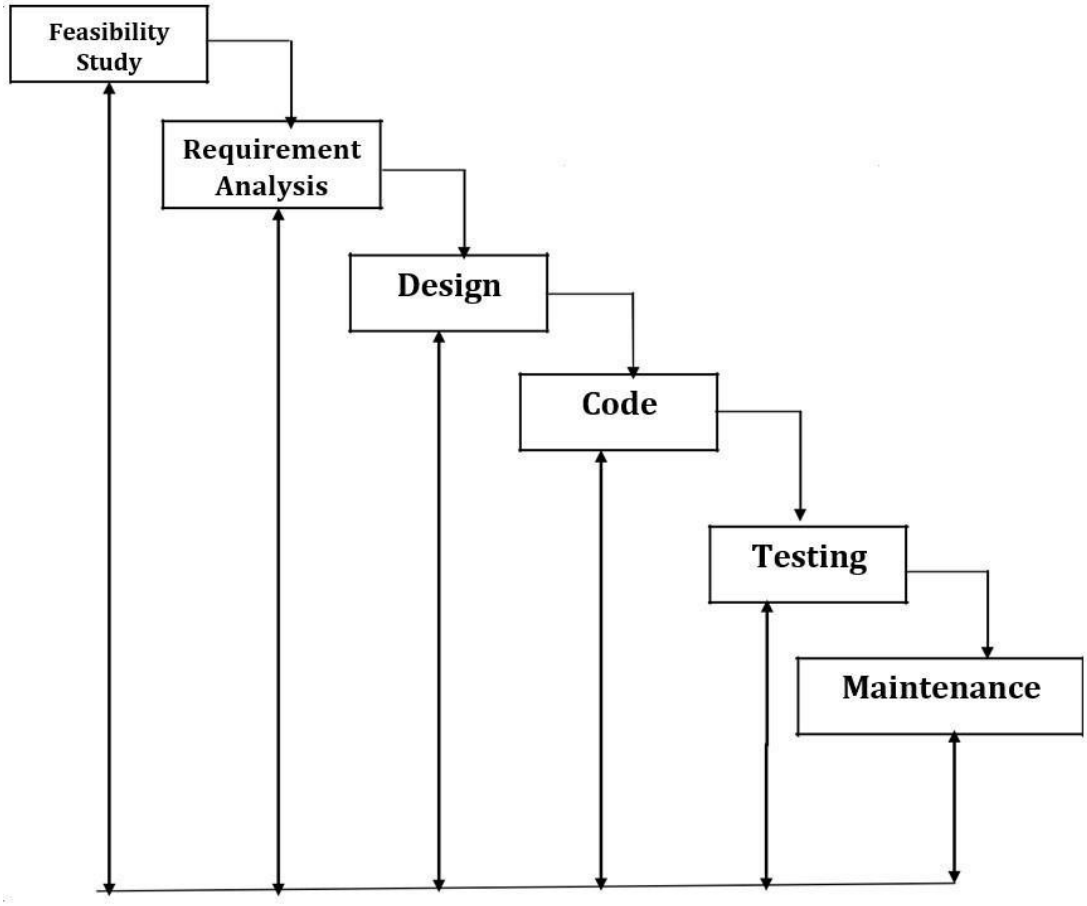
OBJECTIVES OF SYSTEM

- Storing Details of the customer.
- It is high in speed.
- It is more accurate.
- Acquire less paper work.
- Require less man power as compared to existing system.
- As compared to existing system the proposed system consumes less time.
- Proper control of the higher officials.
- Security of data.

System Analysis

System Development Life Cycle

The process model used for this system "classic life cycle" as this is simple and is best for small scale project.



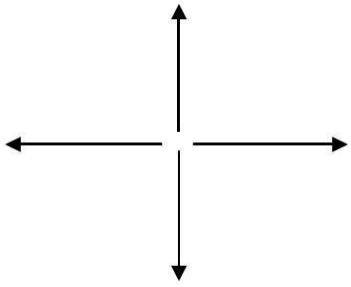
DATA FLOW DIAGRAM

The DFD (also known as bubble chart) is a simple graphical formalism that can be used to represent a system in terms of the input data into the system, various process carried on these data and the output data generated by the system.

The main reason why the DFD technique is so popular is because the fact that the DFD is very simple formalism–it is simple to understand use. A DFD is a very limited number of primitive symbols to represent the functions performed by a system and the data flow among the functions. Starting with a set of high-level functions that a system performs, a DFD model hierarchy represents various sub-functions.

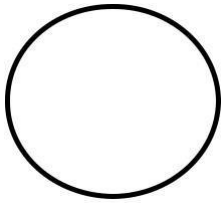
Data Flow:-

A line with an arrow represents data flows. The arrow shows the direction of flow of data. The name of the data appears next to the line. Data more in a specific Direction from an origin to a destination. The data flow is a _packet _of data.



Process :-

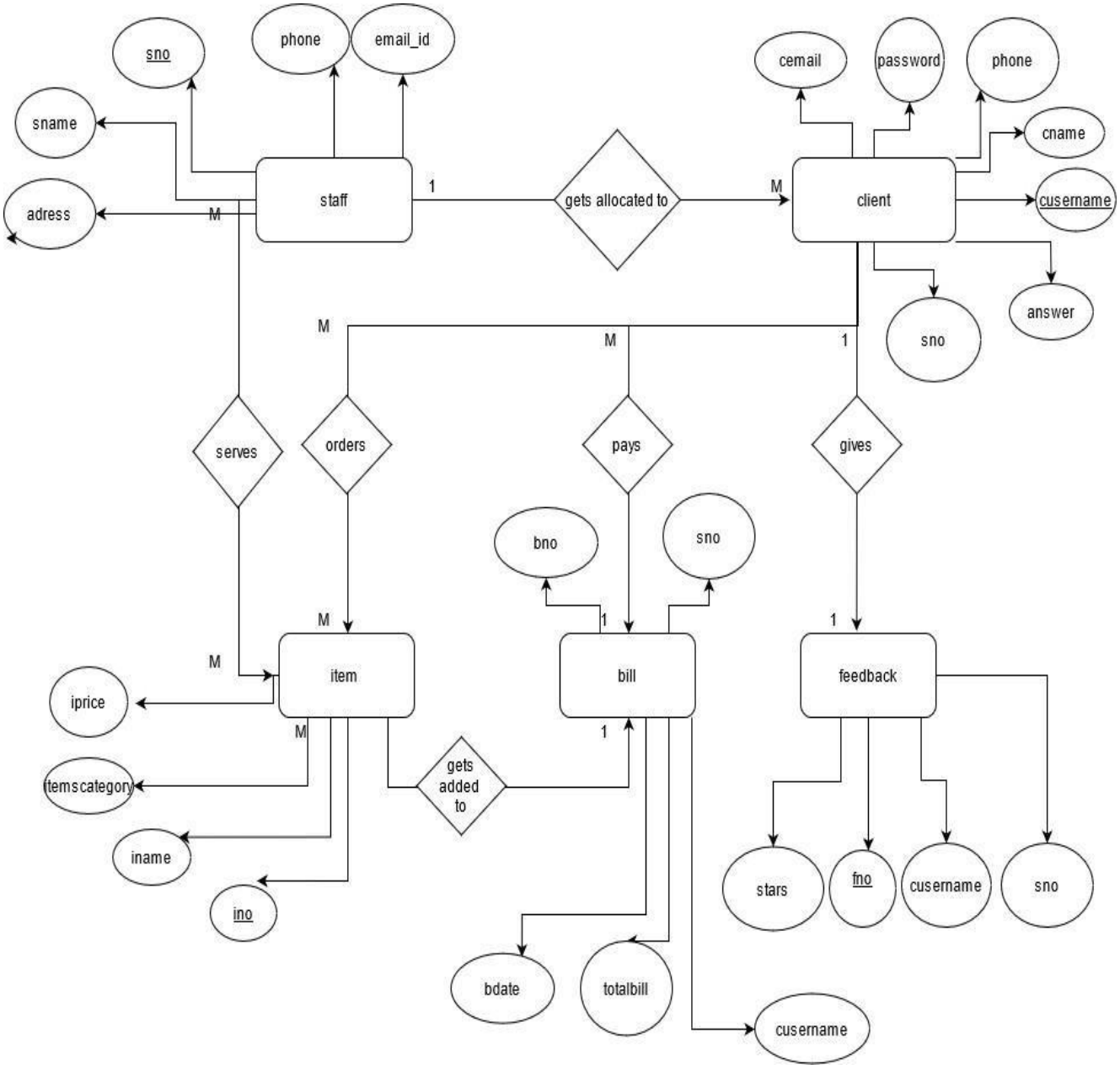
A Circle is used to despite a process. Processes are numbered and given a name.



External Entity :-

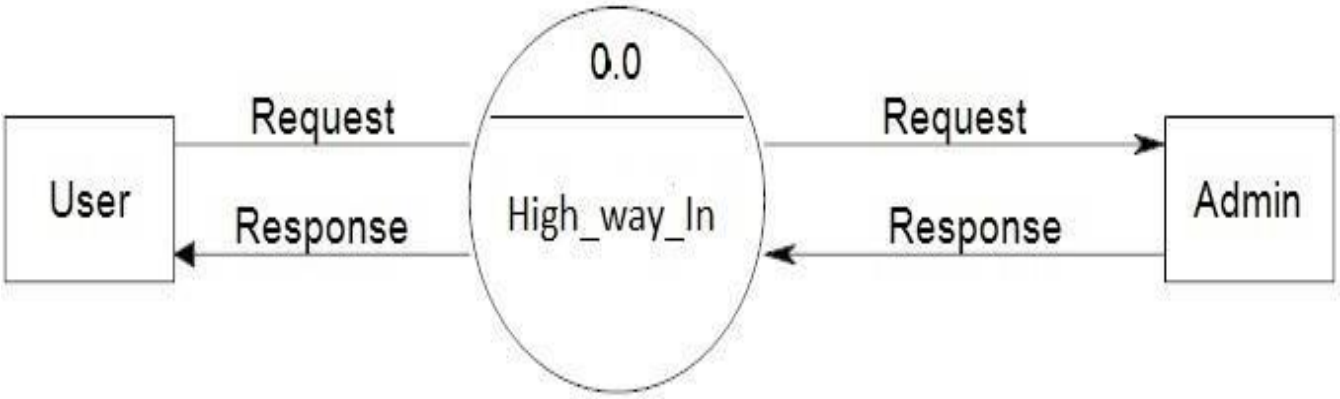
External Entities are represented by the rectangle, and are outside the system, such as venders or customers wit that the system interacts. The designers have no control over them.

Entity Relationship Diagram (ERD)

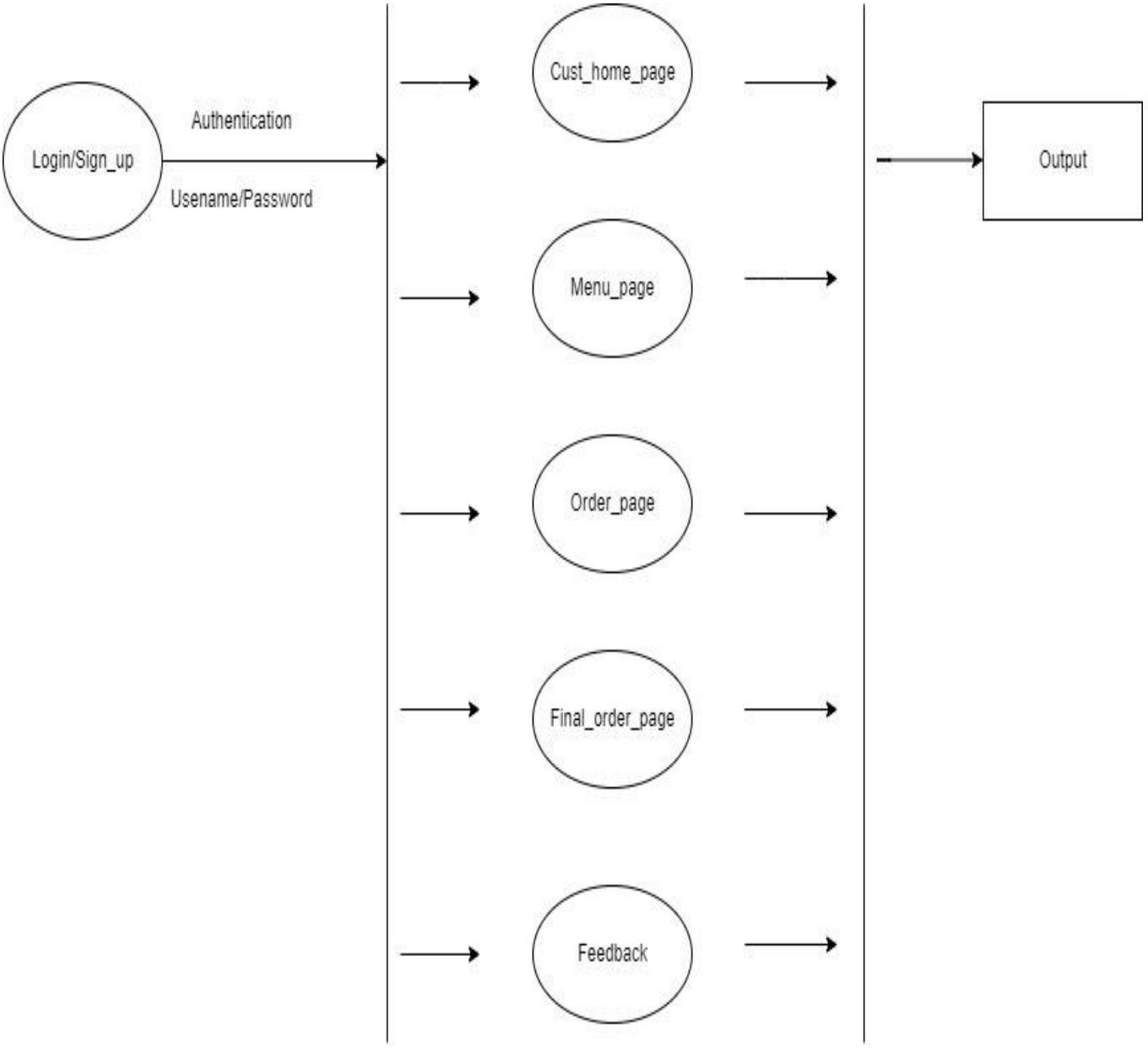


Data Flow Diagram

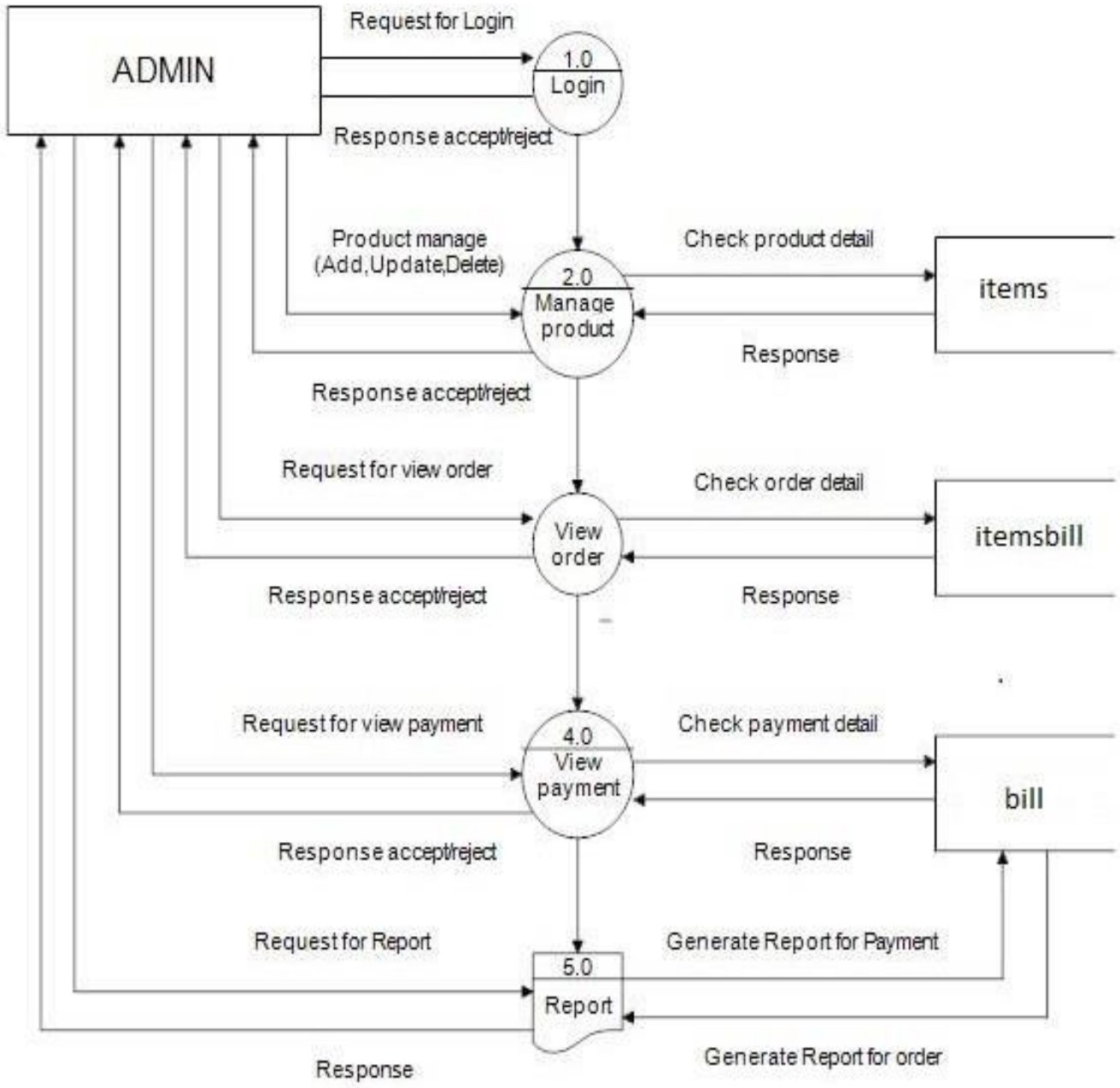
1) 0 Level



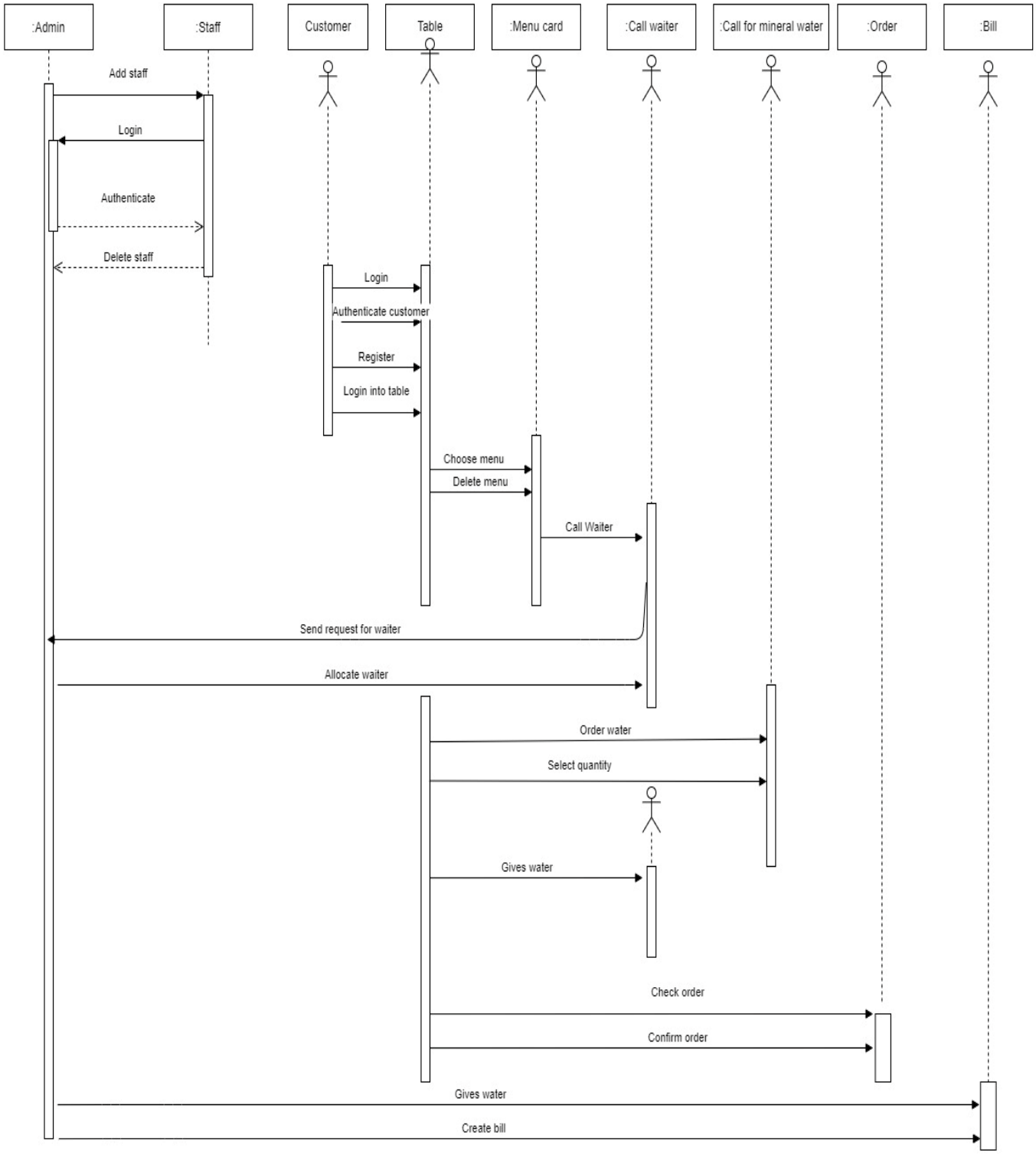
2) 1.0 Level


Login/Sign_up
Authentication
Usename/Password
Cust_home_page
Menu_page
Order_page
Final_order_page
Feedback
Output

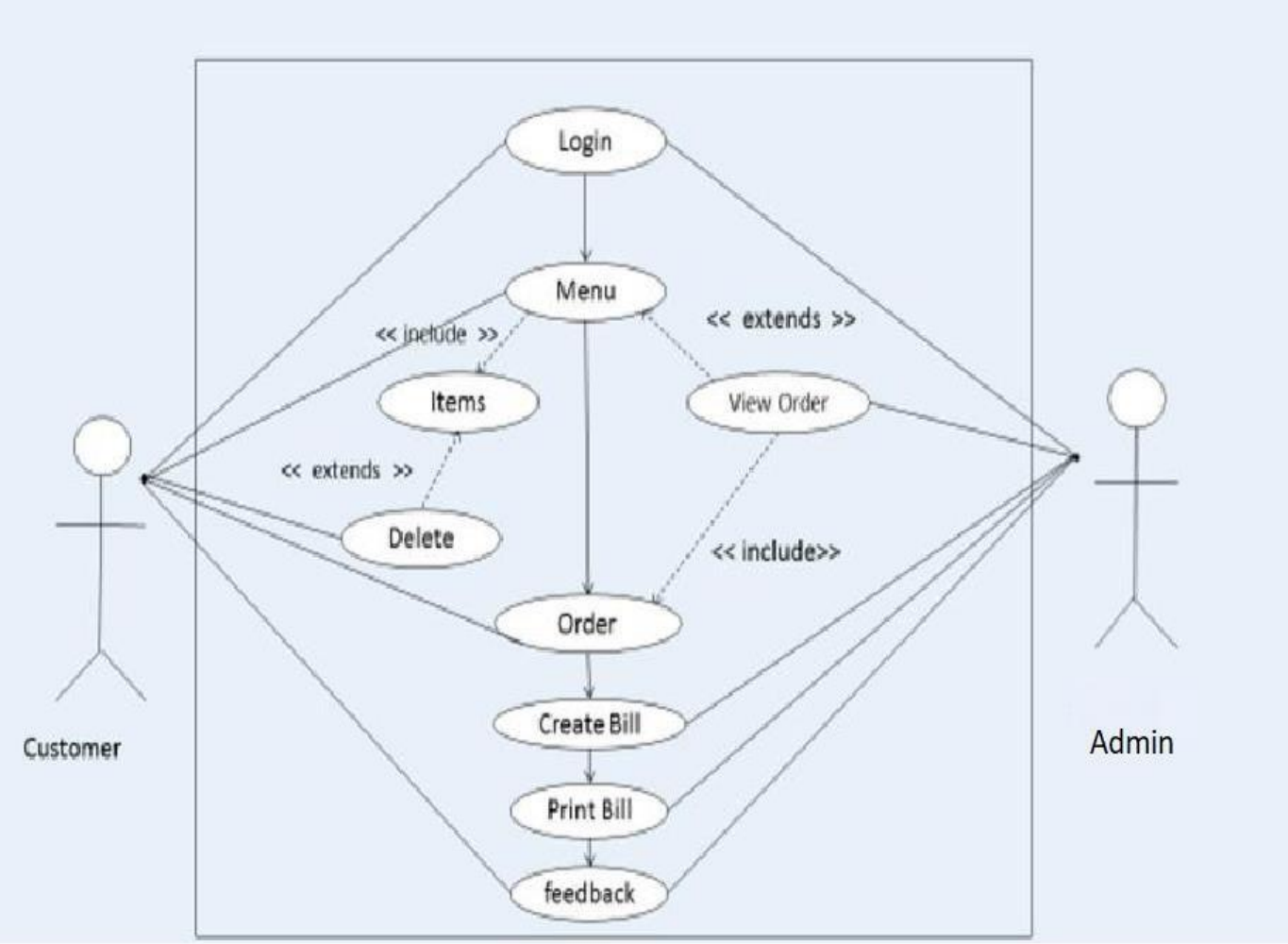
3) 2.0 Level


ADMIN
Request for Login
1.0
Login
Response accept/reject
Product manage
(Add,Update,Delete)
2.0
Manage
product
Check product detail
items
Response
Response accept/reject
Request for view order
Check order detail
View
order
itemsbill
Response accept/reject
Response
Request for view payment
4.0
View
payment
Check payment detail
bill
Response accept/reject
Response
Request for Report
5.0
Report
Generate Report for Payment
Response
Generate Report for order

Sequence Diagram



Use Case Diagram



ABOUT DATABASE

Database:

A database management system (DBMS) is computer software designed for the purpose of managing databases, a large set of structured data, and run operations on the data requested by numerous users. Typical examples of DBMS's include Oracle, DB2, Microsoft Access,

Microsoft SQL Server, Firebird, PostgreSQL, MySQL, and Adaptive Server Enterprise. DBMS's are typically used by Database administrators in the creation of Database systems. Typical examples of DBMS use include accounting, human resources and customer support systems.

Originally found only in large companies with the computer hardware needed to support large data sets, DBMS's have more recently emerged as a fairly standard part of any company back office.

SQL:

Structured Query Language (SQL) is the language used to manipulate relational databases.

SQL is tied very closely with the relational model.

Data definition: Defining tables and structures in the database (DDL used to create, alter and drop schema objects such as tables and indexes).

Data manipulation: Used to manipulate the data within those schema objects (DML Inserting, Updating, Deleting the data, and Querying the Database).

A schema is a collection of database objects that can include: tables, views, indexes and sequences

List of SQL statements that can be issued against an Oracle database schema are:

- **ALTER** - Change an existing table, view or index definition (DDL)
- **AUDIT** - Track the changes made to a table (DDL)
- **COMMENT** - Add a comment to a table or column in a table (DDL)
- **COMMIT** - Make all recent changes permanent (DML - transactional)
- **CREATE** - Create new database objects such as tables or views (DDL)
- **DELETE**- Delete rows from a database table (DML)
- **DROP** - Drop a database object such as a table, view or index (DDL)
- **GRANT** - Allow another user to access database objects such as tables or views (DDL)
- **INSERT** - Insert new data into a database table (DML)
- **No AUDIT** - Turn off the auditing function (DDL)
- **REVOKE** - Disallow a user access to database objects such as tables and views (DDL)
- **ROLLBACK** - Undo any recent changes to the database (DML - Transactional)
- **SELECT** - Retrieve data from a database table (DML)
- **TRUNCATE** - Delete all rows from a database table (can not be rolled back) (DML)
- **UPDATE**- Change the values of some data items in a database table (DML)

MySQL DATABASE

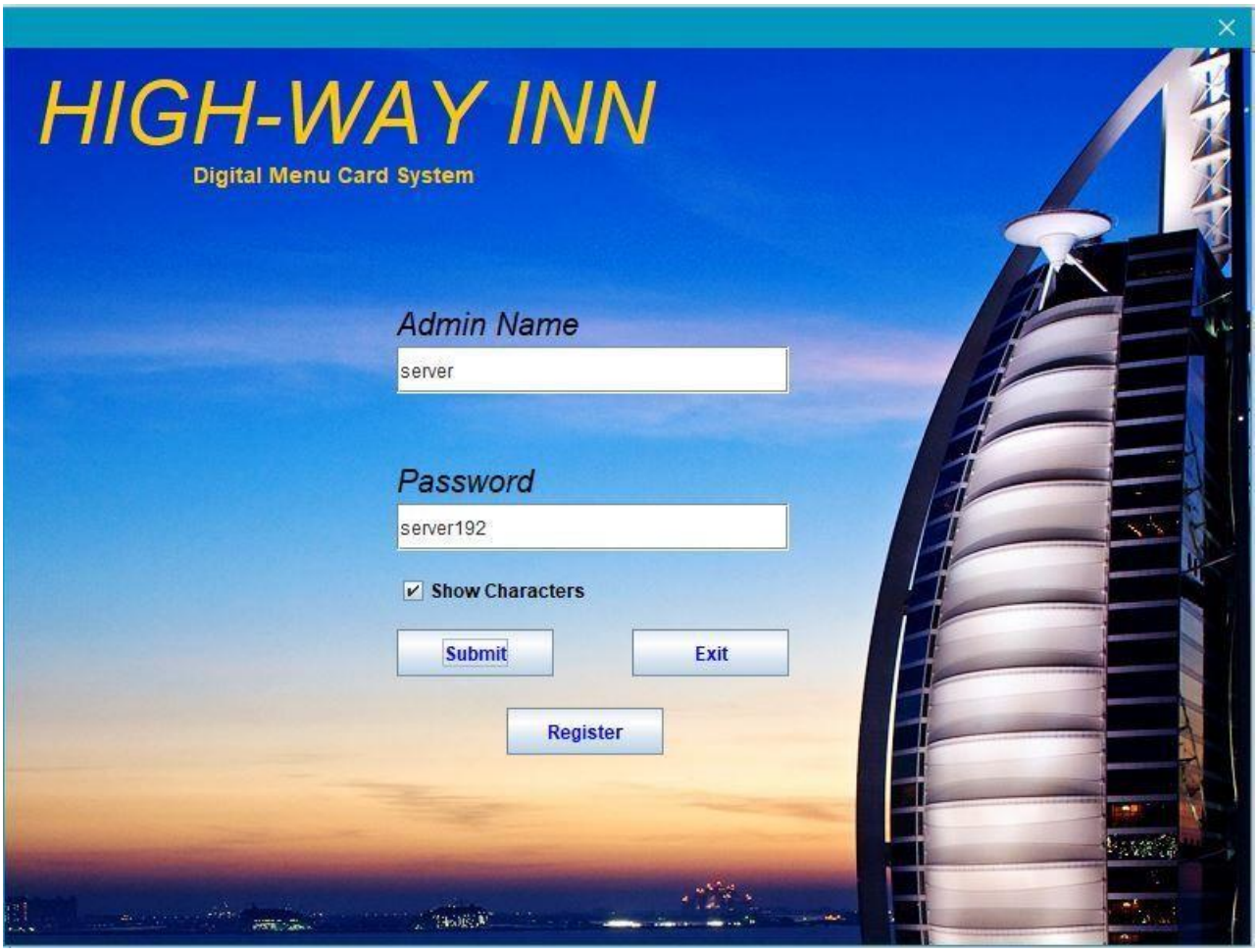
MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons-

- MySQL is released under an open-source license. So, you have nothing to pay to use it.
- MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages. MySQL uses a standard form of the well-known SQL data languages.
- MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
- MySQL works very quickly and works well even with large data sets.
- MySQL is very friendly to PHP, the most appreciated language for web development. MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system can handle it) to a theoretical limit of 8 million terabytes (TB).

User Interface Design

SCREEN

1) Server Login Page

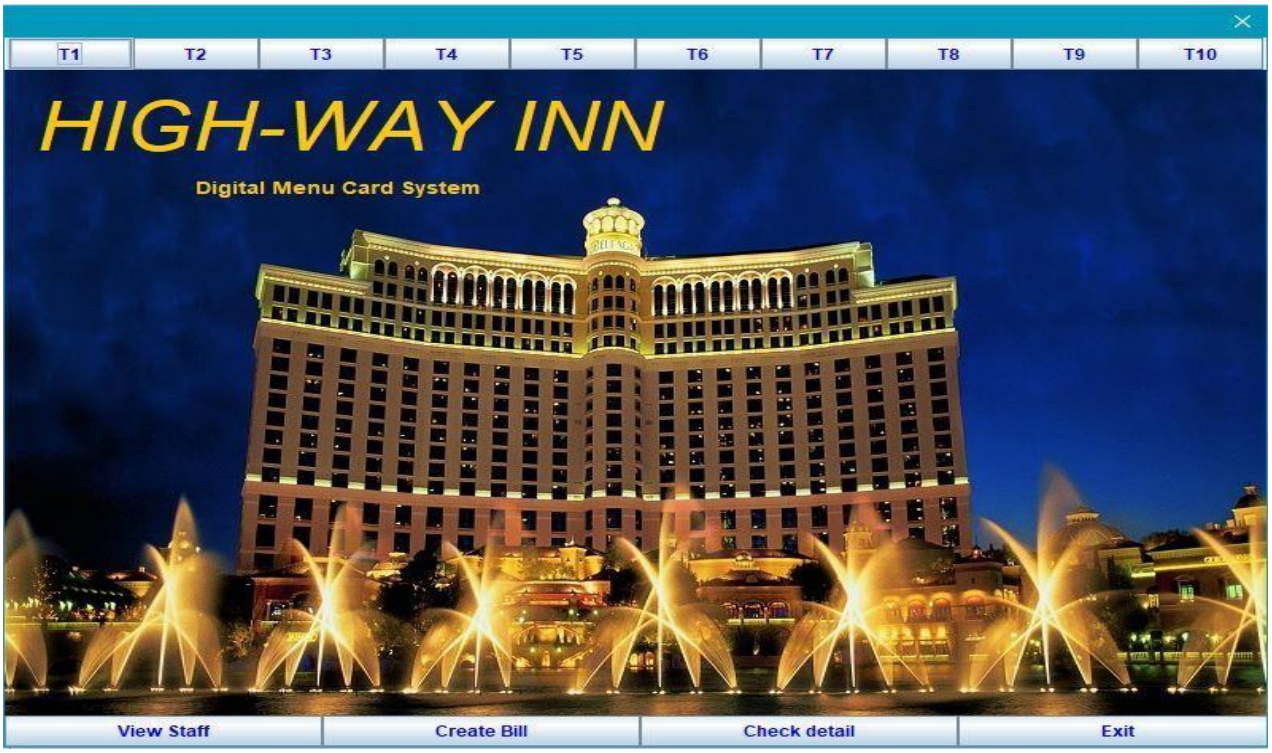


2) If staff not register server not started yet

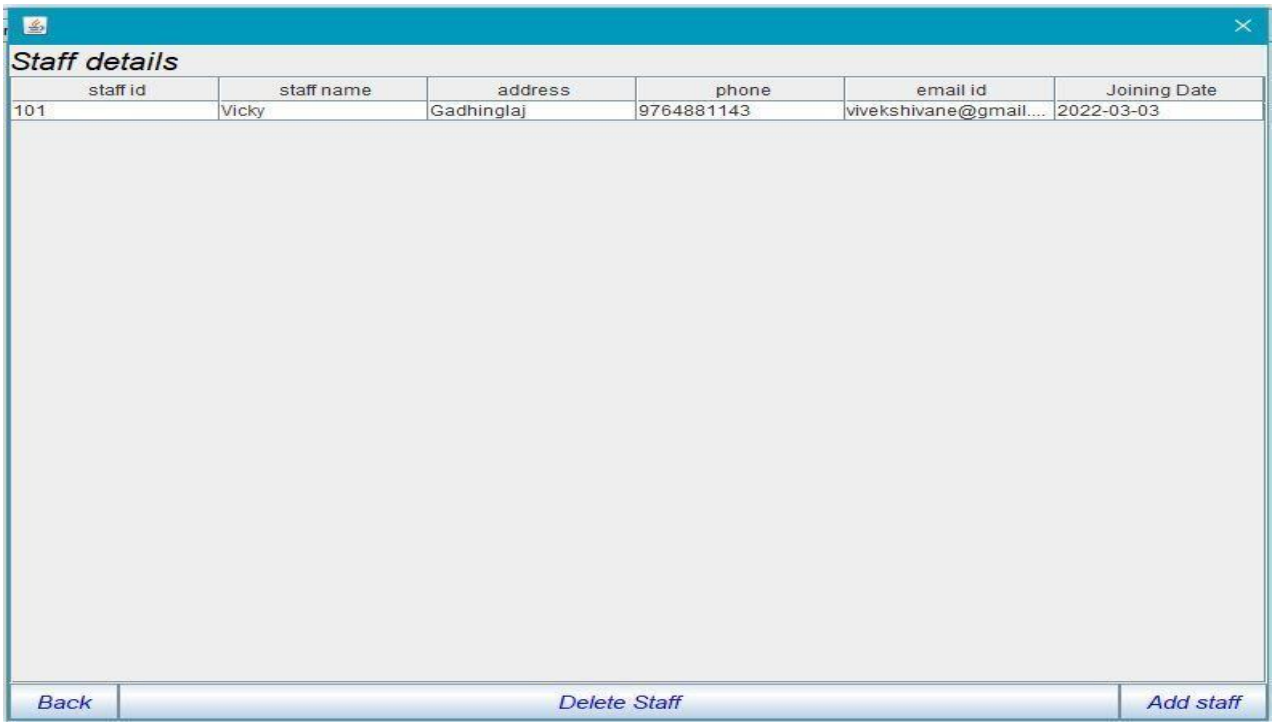
3) Staff registration screen

4) Server can start

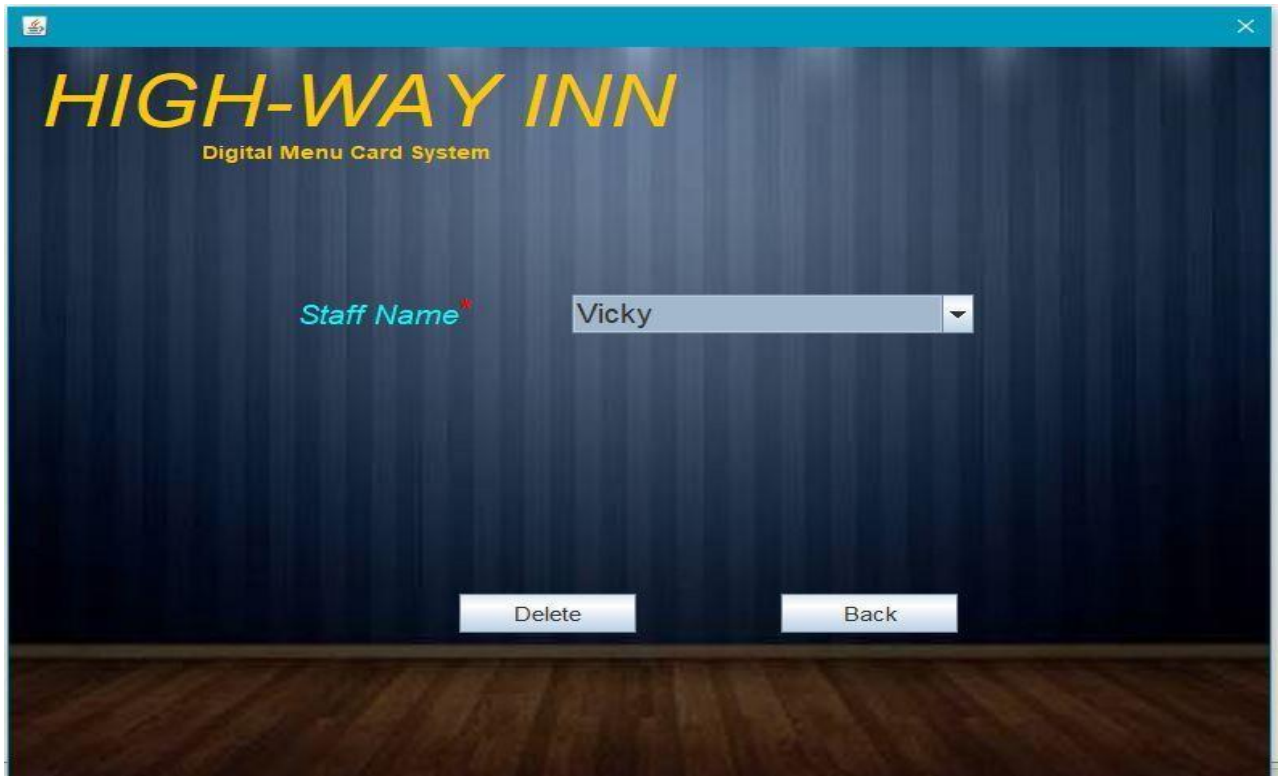
5) Server home page



6) View staff screen



7) Staff deletion page



8) Customer login screen

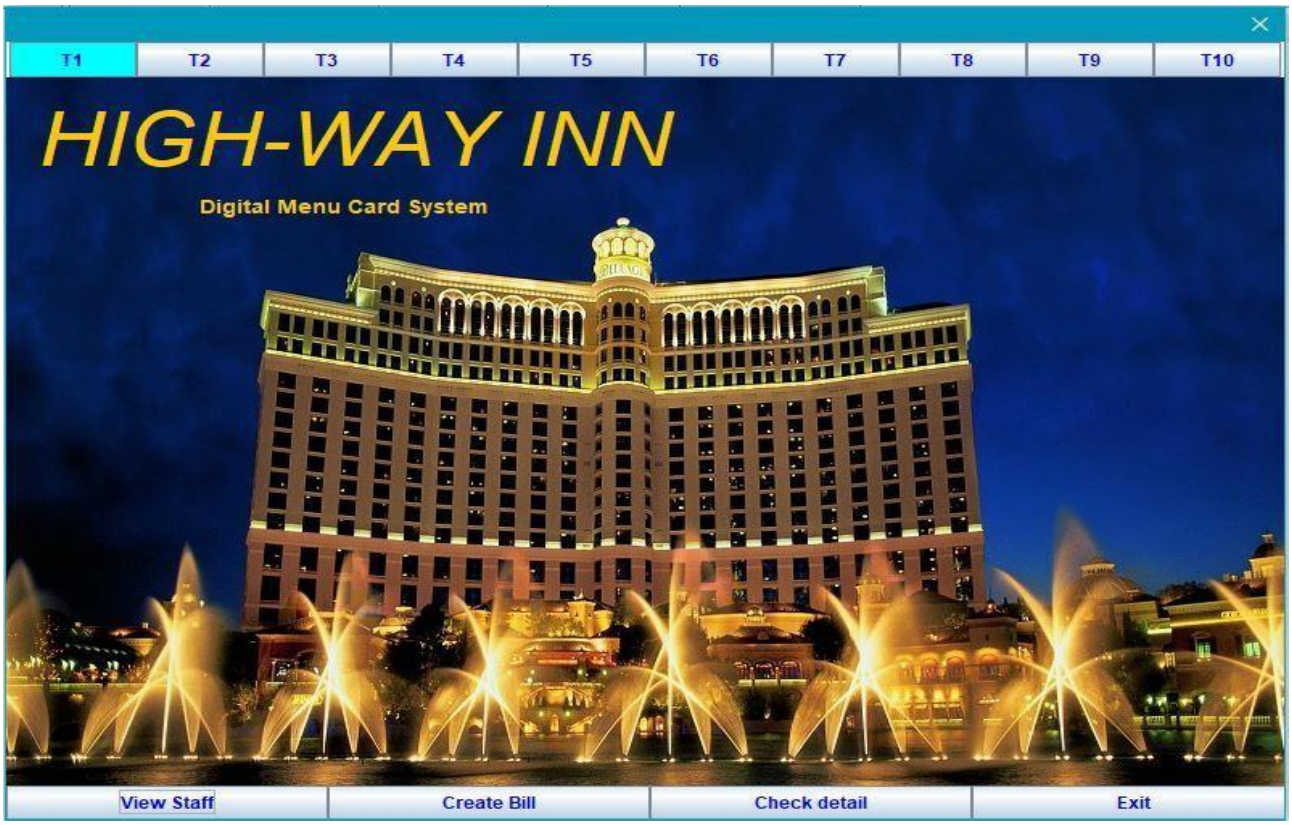
9) Customer registration window

10) Forgot password page

11) Waiter Allocation


T1
T2
T3
T4
T5
T6
T7
T8
T9
T10
HIGH-WAY INN
Digital Menu Card System
Allocate Waiter
Allocate waiter for tabel no1..??
Vicky
OK
Cancel
View Staff
Create Bill
Check detail
Exit

12) **T1 button colour changed in server home page**



13) Customer Home Screen

14) Customer call

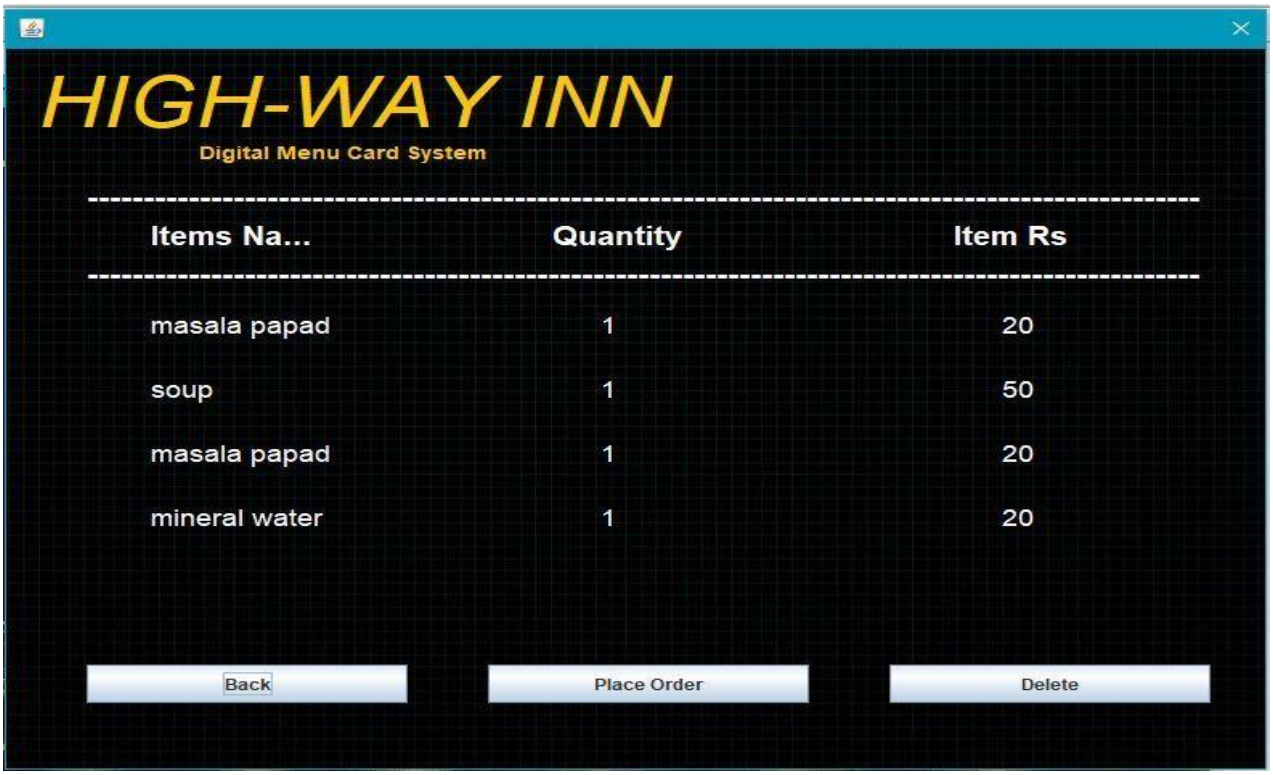
Button Server-

A) Customer side window

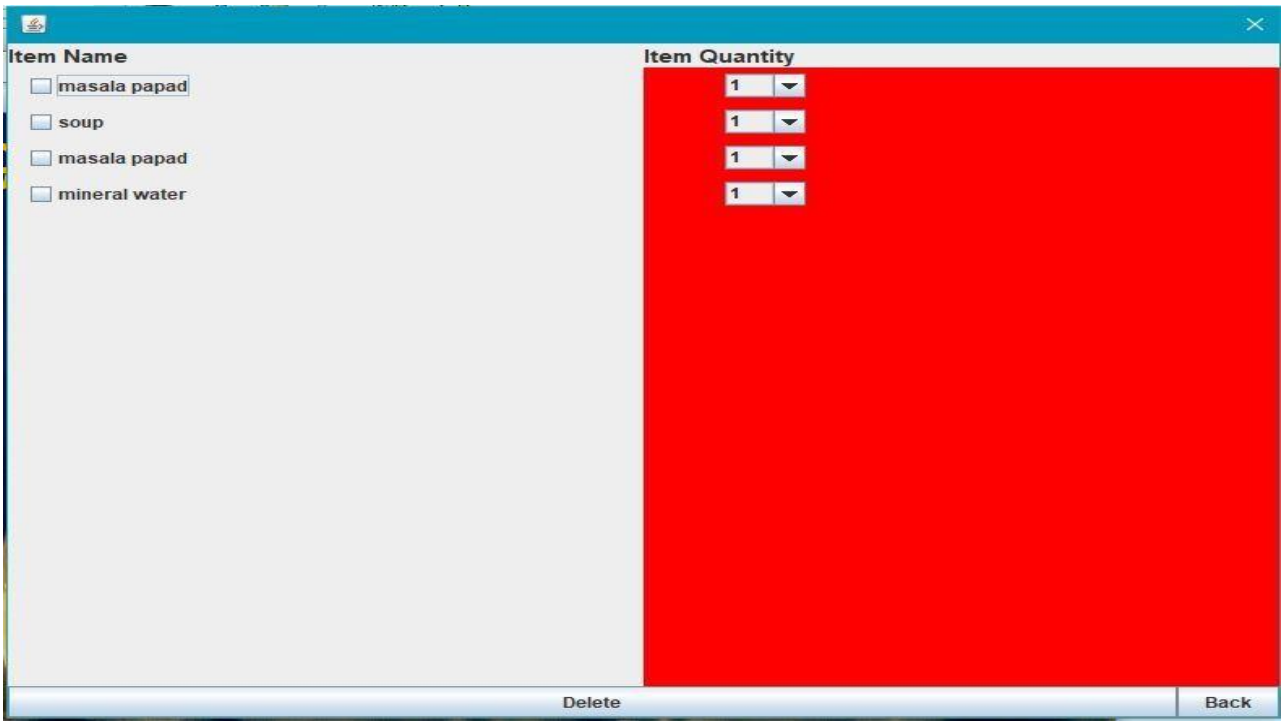
14) Menu Screen

16) Mineral Water

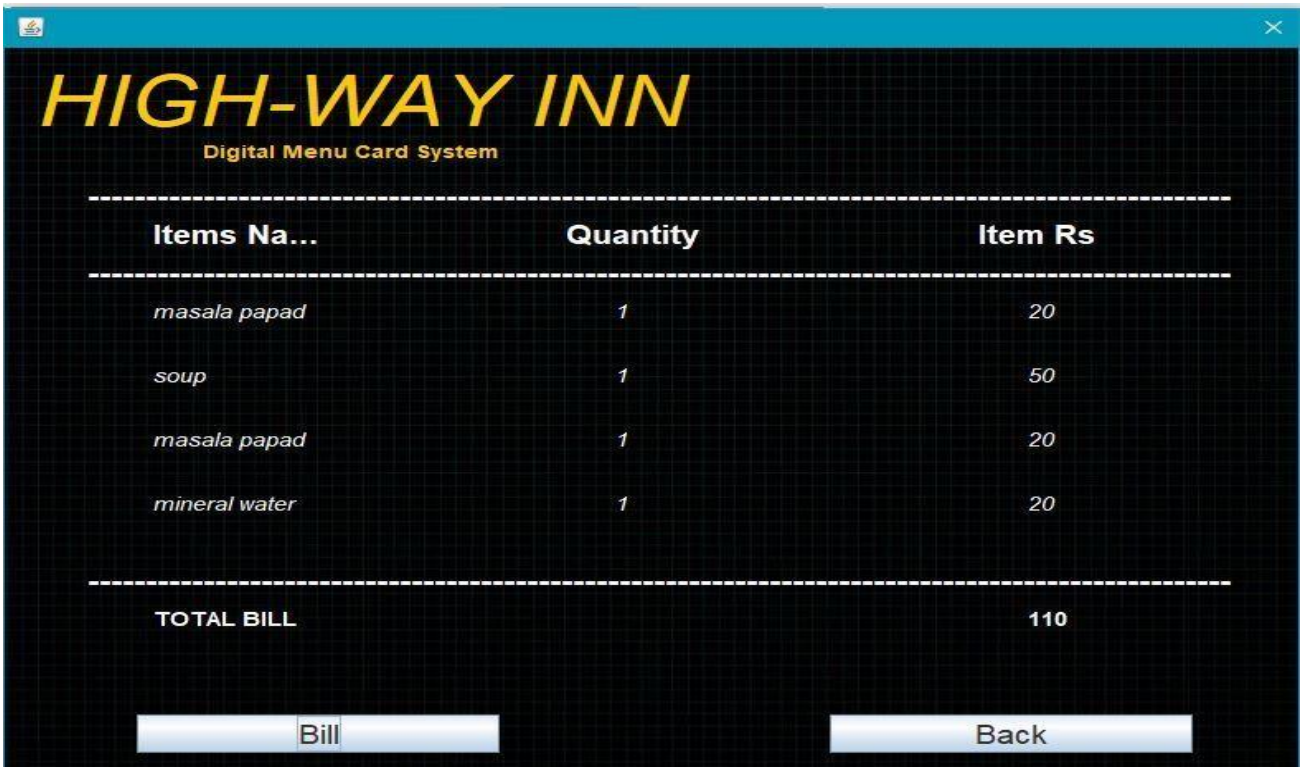
17) Order Window



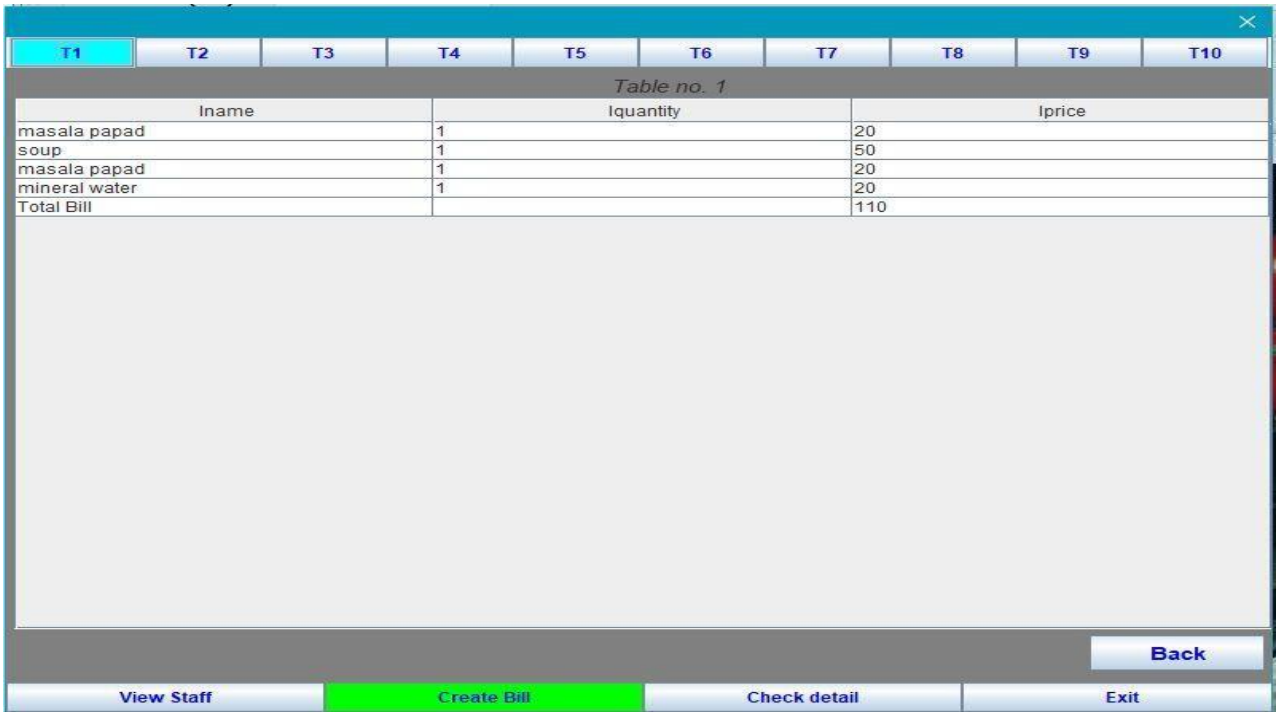
18) Delete window



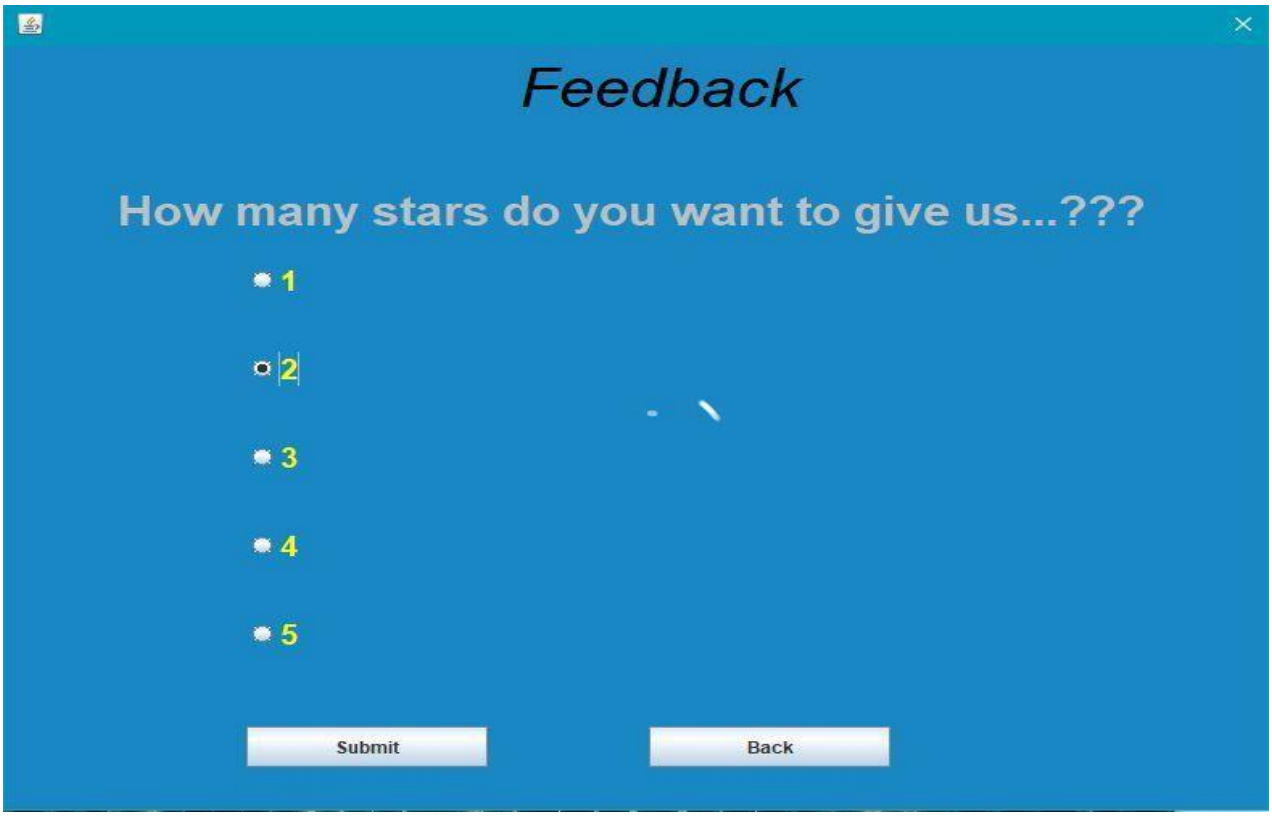
19) Final bill page



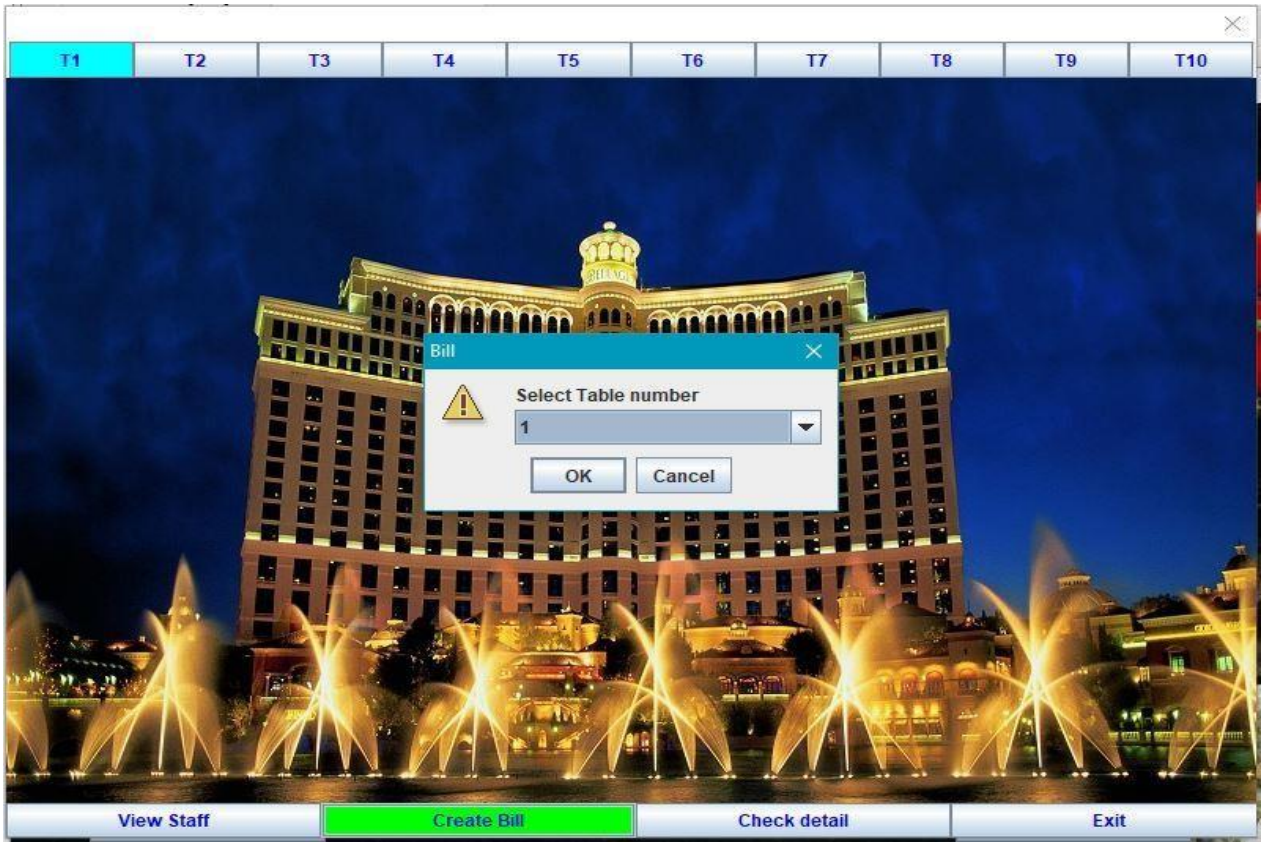
20) Server side order view window



21) Feedback


Feedback
How many stars do you want to give us...???
1
2
3
4
5
Submit
Back

22) Create bill page

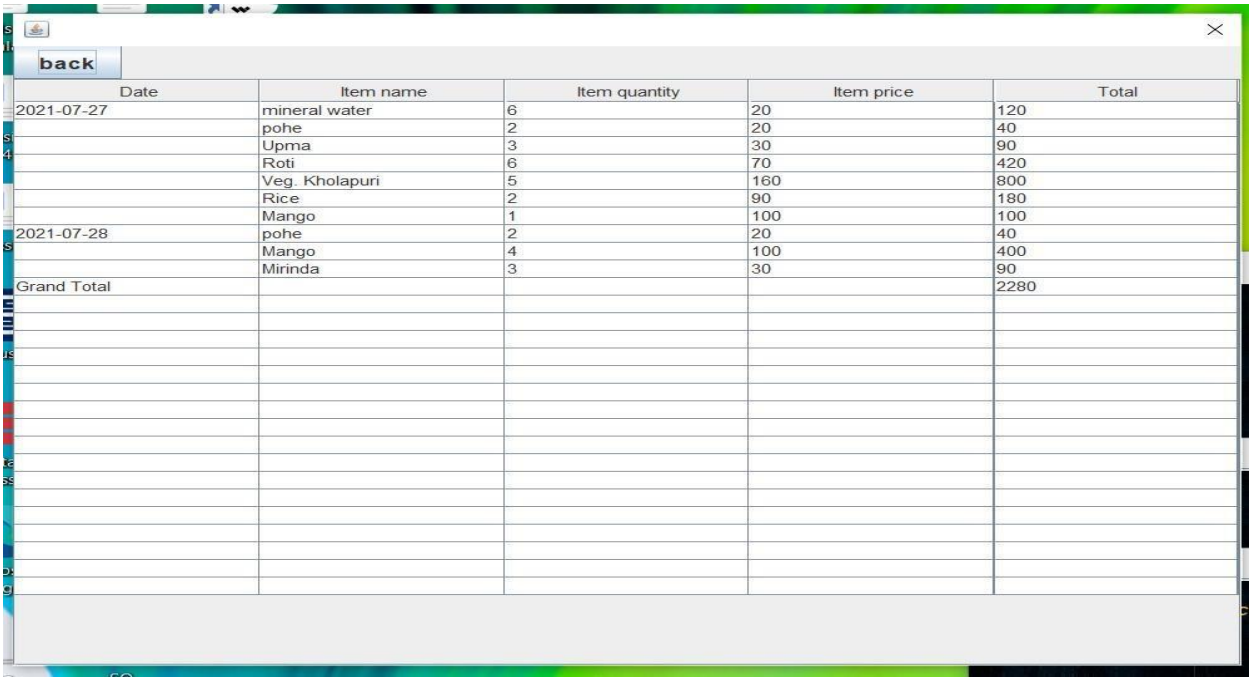


23) Bill

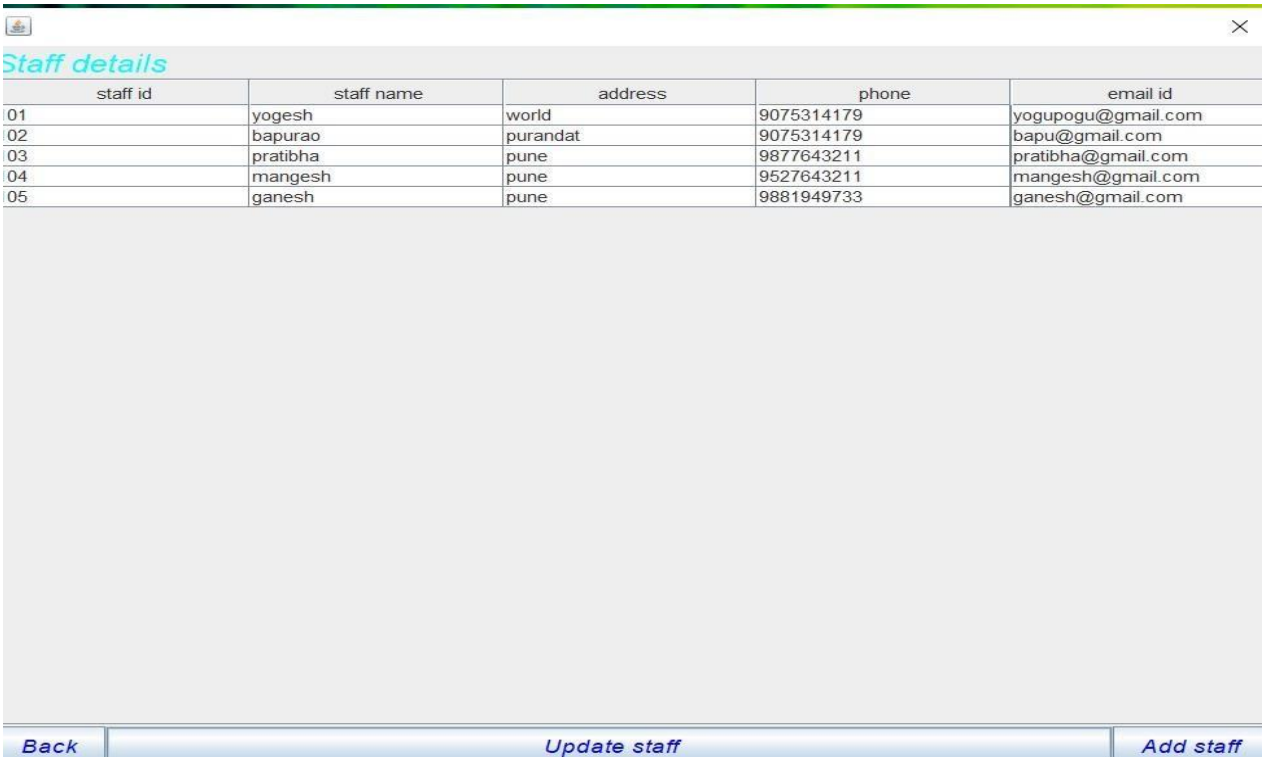

Hotel HIGH-WAY INN
Name :Vicky
Date : 2022/2/3
Table No. 1
Item name
Quantity
Amount
masala papad 2 40
mineral water 1 20
soup 1 50
Total Bill 110
Thank you visit again....!!!
Print
Back

REPORTS :

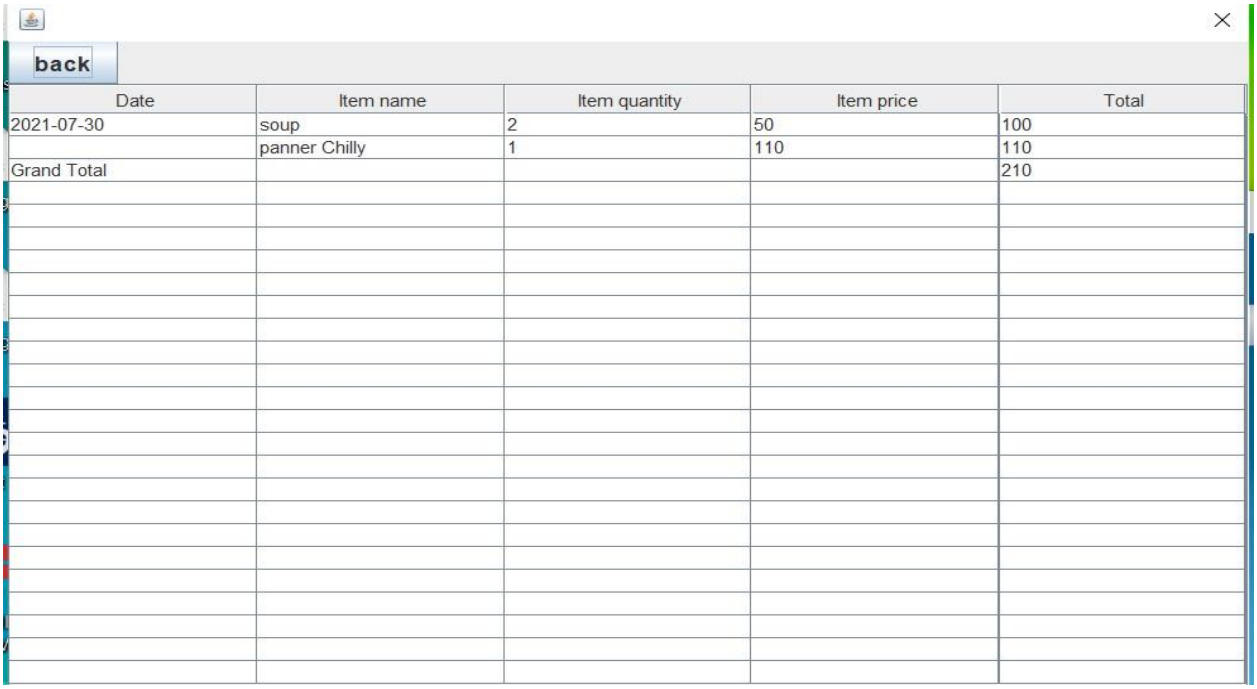
1) All Menu Sale Report



2) All Staff information Report



3) Main Menu Sale Report



4) Pohe Report Sale

back

Date	Item name	Item quantity	Item price	Total
2021-07-27	pohe	2	20	40
2021-07-28	pohe	2	20	40
Grand Total				80

5) Upma Sale Report

Date	Item name	Item quantity	Item price	Total
2021-07-27	Upma	3	30	90
Grand Total				90

6) Mineral Water Sale Report

Date	Item name	Item quantity	Item price	Total
2021-07-27	mineral water	6	20	120
Grand Total				120

7) Roti Sale Report

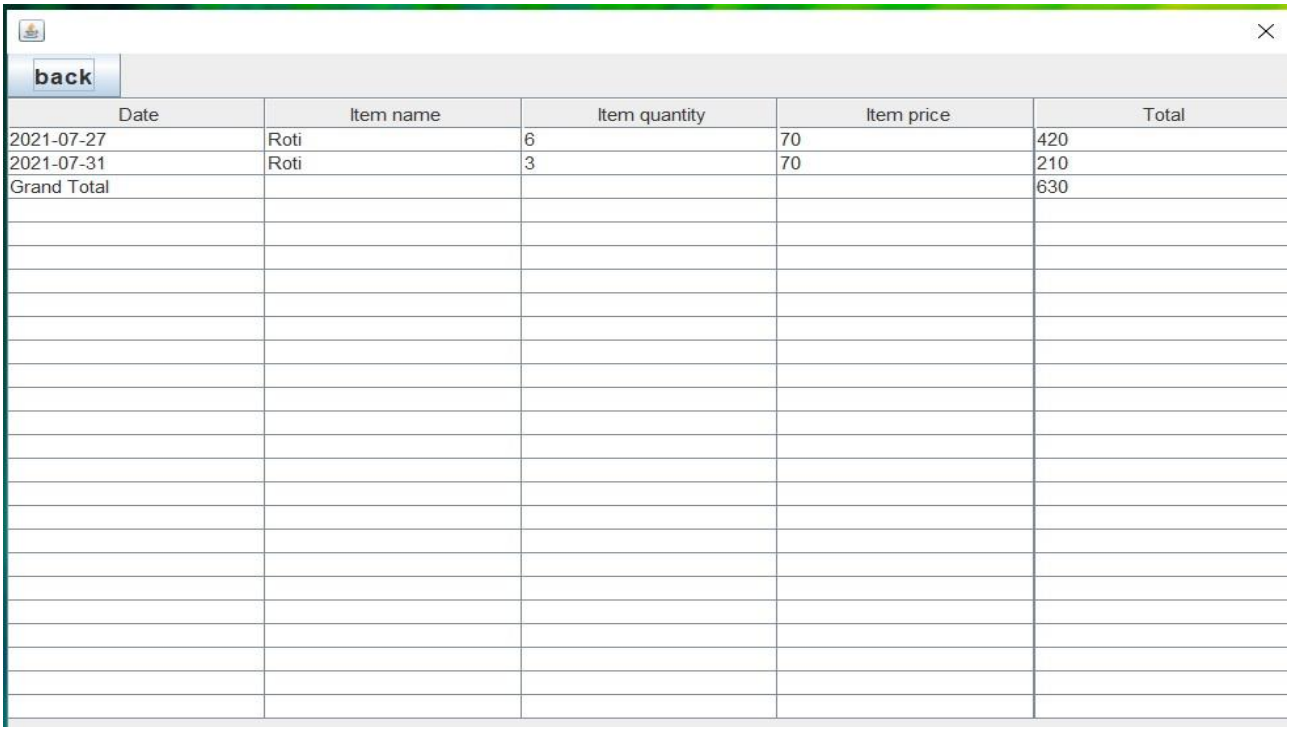


Table Specifications

bill

Column	Type	Null	Default	Links to	Comments	Media type
bdate	date	Yes	*NULL*			
bno	int(11)	Yes	*NULL*			
sno	int(11)	Yes	*NULL*			
cusername	varchar(20)	Yes	*NULL*			
totalbill	int(11)	Yes	*NULL*			

No index defined!

client

Column	Type	Null	Default	Links to	Comments	Media type
cusername *(Primary)*	varchar(20)	No				
cname	varchar(20)	No				
password	varchar(20)	No				
cemail	varchar(30)	Yes	*NULL*			
phone	decimal(10,0)	Yes	*NULL*			
sno	int(11)	Yes	*NULL*			
answer	varchar(40)	No				

feedback

Column	Type	Null	Default	Links to	Comments	Media type
fno *(Primary)*	int(11)	No				
stars	int(11)	No				
cusername	varchar(20)	Yes	*NULL*			
sno	int(11)	Yes	*NULL*			

items

Column	Type	Null	Default	Links to	Comments	Media type
ino *(Primary)*	int(11)	No				
iname	varchar(20)	No				
iprice	int(11)	No				
itemscategory	varchar(30)	No				

Column	Type	Null	Default	Links to	Comments	Media type
sno(primary)	int(11)	No	None			
sname	varchar(20)	No	None			
address	text	Yes	NULL			
phone	Decimal(10,0)	Yes	NULL			
email_id	varchar(40)	Yes	NULL			
Jdate	date	Yes	NULL			

staff

itemsbill

Column	Type	Null	Default	Links to	Comments	Media type
bdate	date	Yes	*NULL*			
bno	int(11)	Yes	*NULL*			
ino	int(11)	Yes	*NULL*			
itotal	int(11)	Yes	*NULL*			
iqaun	int(11)	Yes	*NULL*			
isprinted	tinyint(1)	Yes	*NULL*			

No index defined!

itemsclient

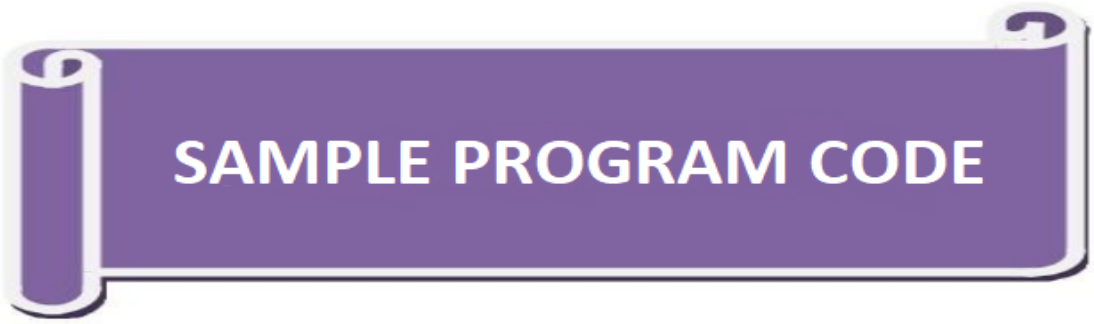
Column	Type	Null	Default	Links to	Comments	Media type
cusername	varchar(20)	Yes	*NULL*			
ino	int(11)	Yes	*NULL*			

No index defined!

itemsstaff

Column	Type	Null	Default	Links to	Comments	Media type
sno	int(11)	Yes	*NULL*			
ino	int(11)	Yes	*NULL*			
itotal	int(11)	Yes	*NULL*			
iqaun	int(11)	Yes	*NULL*			

No index defined!




```
 public class Server
{
	 public static String classname="com.mysql.jdbc.Driver";
		public static String connection;
		public static String connection1;
		public static String connection2;
		public static String working="";
		public static int Port1=60597;
		public static int Port11=60511;
		public static int Port2=60591;
		public static int Port3=60592;
		public static int Port4=60593;
		public static int Port5=60594;
		public static int Port6=60595;
		public static int Port7=60596;
		public static int Port8=60598;
		public static int Port9=60599;
		public static int Port10=60510;
		public static int firstday,firstmonth,firstyear;
		int server=0;
		static ServerSocket socket1=null;
	Server()
	{

	}
	Server(int server)
	{
		this.server=server;
	}
	public  static void main(String[] args) throws ClassNotFoundException, SQLException
	{

		Server.connection="jdbc:mysql://localHost:3306/Vicky?autoReconnect=true&useSSL=false";
		Server.connection1="root";
		Server.connection2="";
		Statement stmt=null;
		Connection con=null;
		try
		{
			//String ip=Inet4Address.getLocalHost().getHostAddress();
```

```
                        //System.out.print("Server ip="+ip);
                        Class.forName(Server.classname);
                        con=DriverManager.getConnection(Server.connection,Server.connection1,Server.connection2);
                        stmt= con.createStatement();
                System.out.println("Connection Successful!");
                    }
                    catch(Exception e)
                    {
                            e.printStackTrace();
                    }
                    Server.working=System.getProperty("user.dir");
                    Server.working+="/";
                    LoadMenu.loadMenu(stmt);
                    //login
                                    final JDialog login=new JDialog();
                                    login.setLocation(340,150);
                                    login.addWindowListener(new WindowAdapter()
                                    {
                                            public void windowClosing(WindowEvent e)
                                            {
                                                    int dialogButton=JOptionPane.YES_NO_OPTION;
                                                    int i=JOptionPane.showConfirmDialog(login, "Do you want to
exit...???","Exit",dialogButton);
                                                    if(i==0)
                                                    {
                                                            System.exit(0);
                                                    }
                                                    else
                                                    {

        login.setDefaultCloseOperation(WindowConstants.DO_NOTHING_ON_CLOSE);
                                                    }
                                            }
                                    });
                            login.setSize(800,600);
                            login.setLayout(new BorderLayout());
                            if(con==null)
                            {
                                    JOptionPane.showMessageDialog(login,"Sorry,System failed to open.\n Please contact
your System administrator");
                            }
                            else
                            {
                            //System.out.println("working="+Server.working);
                            JPanel loginPage=new JPanel();
                            loginPage.setBackground(Color.CYAN);
                            loginPage.setLayout(null);

                            ImageIcon ii=new ImageIcon(Server.working+"images/Burj.jpg");
                            JLabel img=new JLabel(ii);
                //img.setIcon(new ImageIcon(server.getResource("images/Burj.jpg")));
                            img.setBounds(0,0,800,600);
                            JLabel Project=new JLabel("HIGH-WAY INN");
```

```
Project.setForeground(Color.ORANGE);
Project.setBounds(20,10,2000,60);
Project.setFont(new Font(Project.getName(),Font.ITALIC,55));
loginPage.add(Project);
JLabel Project1=new JLabel("Digital Menu Card System");
Project1.setForeground(Color.ORANGE);
Project1.setBounds(120,50,2000,60);
Project1.setFont(new Font(Project.getName(),Font.BOLD,14));
loginPage.add(Project1);

        JLabel userId=new JLabel("Admin Name");
        userId.setFont(new Font(userId.getName(),Font.HANGING_BASELINE,20));
        userId.setForeground(Color.black);
        userId.setBounds(250,150,150,50);
        loginPage.add(userId);

        JTextField userText=new JTextField(30);
        userText.setBounds(250,190,250,30);
        loginPage.add(userText);
        JLabel userPass=new JLabel("Password");
        userPass.setForeground(Color.black);
        userPass.setFont(new Font(userId.getName(),Font.HANGING_BASELINE,20));
        userPass.setBounds(250,250,150,50);
        loginPage.add(userPass);

        JPasswordField passText=new JPasswordField(20);
        passText.setBounds(250,290,250,30);

        loginPage.add(passText);

        JCheckBox passVisible=new JCheckBox("Show Characters");
        passVisible.setForeground(Color.BLACK);
        passVisible.setBounds(250,330,150,30);
        passVisible.addActionListener(new Password(passVisible,passText));
        passVisible.setOpaque(false);
        loginPage.add(passVisible);
        //ImageIcon iil=new ImageIcon(Server.working+"images/m55.jpg");
        JButton submit=new JButton("Submit");
        //submit.setIcon(iil);
        submit.setBounds(250,370,100,30);
        //submit.setSelectedIcon(iil);
        //submit.setBackground(Color.LIGHT_GRAY);
        submit.setForeground(Color.blue);
        JButton addstaff=new JButton("Register");
        addstaff.setBounds(320,420,100,30);
        //addstaff.setBackground(Color.LIGHT_GRAY);
        addstaff.setForeground(Color.BLUE);
        JButton exit=new JButton("Exit");
        exit.setBounds(400,370,100,30);
        exit.addActionListener(new Exit(login));
        //exit.setBackground(Color.LIGHT_GRAY);
        exit.setForeground(Color.BLUE);
        try
```

```
                {

                        //int p=0;
                        final JDialog serverFrame1=new JDialog();
                        serverFrame1.setDefaultCloseOperation(WindowConstants.DO_NOTHING_ON_CLOSE);
                        serverFrame1.addWindowListener(new WindowAdapter()
                        {
                                public void windowClosing(WindowEvent e)
                                {
                                        int dialogButton=JOptionPane.YES_NO_OPTION;
                                        int i=JOptionPane.showConfirmDialog(serverFrame1, "Do you want to
Exit...???","Exit",dialogButton);

                                        if(i==0)
                                        {
                                                System.exit(0);
                                        }
                                        else
                                        {

                                        }
                                }
                        });
                        serverFrame1.setLayout(new BorderLayout());
                        serverFrame1.setSize(800, 600);
                        JPanel p1=new JPanel();
                        p1.setLayout(new GridLayout(1,10));
                        JPanel p2=new JPanel();
                        JPanel p3=new JPanel();
                        p3.setLayout(new BorderLayout());
                        p3.setBackground(Color.ORANGE);
                        ImageIcon ii1=new ImageIcon(Server.working+"images/m67.jpg");
                        JLabel img1=new JLabel(ii1);
                        img1.setBounds(0,0,800,600);
                        p3.add(img1);
                        JPanel p4=new JPanel();
                        JPanel p5=new JPanel();
                        JButton t1=new JButton("T1");
                        t1.setForeground(Color.BLUE);
                        JButton t2=new JButton("T2");
                        t2.setForeground(Color.BLUE);
                        JButton t3=new JButton("T3");
                        t3.setForeground(Color.BLUE);
                        JButton t4=new JButton("T4");
                        t4.setForeground(Color.BLUE);
                        JButton t5=new JButton("T5");
                        t5.setForeground(Color.BLUE);
                        JButton t6=new JButton("T6");
                        t6.setForeground(Color.BLUE);
                        JButton t7=new JButton("T7");
                        t7.setForeground(Color.BLUE);
                        JButton t8=new JButton("T8");
                        t8.setForeground(Color.BLUE);
                        JButton t9=new JButton("T9");
```

```
                    t9.setForeground(Color.BLUE);
                    JButton t10=new JButton("T10");
                    t10.setForeground(Color.BLUE);
                    p1.add(t1);
                    p1.add(t2);
                    p1.add(t3);
                    p1.add(t4);
                    p1.add(t5);
                    p1.add(t6);
                    p1.add(t7);
                    p1.add(t8);
                    p1.add(t9);
                    p1.add(t10);
JLabel Project2=new JLabel("HIGH-WAY INN");
Project2.setForeground(Color.ORANGE);
Project2.setBounds(20,40,2000,60);
Project2.setFont(new Font(Project.getName(),Font.ITALIC,55));
serverFrame1.add(Project2);
JLabel Project3=new JLabel("Digital Menu Card System");
Project3.setForeground(Color.ORANGE);
Project3.setBounds(120,90,2000,60);
Project3.setFont(new Font(Project.getName(),Font.BOLD,14));
serverFrame1.add(Project3);
                    p2.setPreferredSize(new Dimension(100,25));
                    serverFrame1.add(p1,"North");
                    serverFrame1.add(p2,"South");
                    p2.setLayout(new BorderLayout());
                    JButton exit1=new JButton("Exit");
                    exit1.setForeground(Color.blue);
                    exit1.addActionListener(new Exit(serverFrame1));
                    exit1.setBounds(600,0,200,25);
                    JPanel p21=new JPanel();
                    p21.setLayout(null);
                    p21.setBackground(Color.GREEN);
                    JButton viewstaff=new JButton("View Staff");
                    viewstaff.setBounds(0,0,200,25);
                    viewstaff.addActionListener(new ViewStaff(serverFrame1,viewstaff));
                    viewstaff.setForeground(Color.blue);
                    p21.add(viewstaff);
                    JButton createBill=new JButton("Create Bill");
                    createBill.setBounds(200,0,200,25);
                    createBill.setForeground(Color.blue);
                    p21.add(createBill);
                    JButton checkdetail=new JButton("Check detail");
                    checkdetail.setBounds(400,0,200,25);
                    checkdetail.addActionListener(new CheckDetail(serverFrame1));
                    checkdetail.setForeground(Color.blue);
                    p21.add(checkdetail);
                    p2.add(p21,"Center");
                    p21.add(exit1);
                    JLabel Error=new JLabel("            NO ORDER FROM ANY TABLE");
                    Error.setFont(new Font(Error.getName(),Font.ITALIC,25));
                    Error.setForeground(Color.BLACK);
```

```
                    serverFrame1.add(p3,"Center");
                    p4.setBackground(Color.CYAN);
                    p5.setBackground(Color.CYAN);
                    serverFrame1.setResizable(false);
                    submit.addActionListener(new Submit(con,serverFrame1,passText,userText,login));
                    addstaff.addActionListener(new AddStaff(con,login,userText,passText));
                    loginPage.add(submit);
                    loginPage.add(exit);
                    loginPage.add(addstaff);
                    loginPage.add(img);
                    p3.add(Error,"Center");
                    login.add(loginPage,"Center");
                    login.setResizable(false);
                    login.setModal(true);
                    login.setModalityType(ModalityType.APPLICATION_MODAL);
                    login.setVisible(true);
            p3.addFocusListener(new FocusListener()
            {
               public void focusGained(FocusEvent arg0)
               {

               }
               public void focusLost(FocusEvent arg0)
               {
                  p3.add(img1);
               }
            });
                    TableNo1 T1=new TableNo1(serverFrame1,p3,p21,t1,createBill);
                    TableNo2 T2=new TableNo2(serverFrame1,p3,p21,t2,createBill);
                    TableNo3 T3=new TableNo3(serverFrame1,p3,p21,t3,createBill);
                    TableNo4 T4=new TableNo4(serverFrame1,p3,p21,t4,createBill);
                    TableNo5 T5=new TableNo5(serverFrame1,p3,p21,t5,createBill);
                    TableNo6 T6=new TableNo6(serverFrame1,p3,p21,t6,createBill);
                    TableNo7 T7=new TableNo7(serverFrame1,p3,p21,t7,createBill);
                    TableNo8 T8=new TableNo8(serverFrame1,p3,p21,t8,createBill);
                    TableNo9 T9=new TableNo9(serverFrame1,p3,p21,t9,createBill);
                    TableNo10 T10=new TableNo10(serverFrame1,p3,p21,t10,createBill);
                    new Server().runServer(serverFrame1,login);
                }
                catch(IOException e2)
                {
                    //System.exit(0);
                    //System.out.println("exception="+e2);
                }
        }
}
```

PROPOSED ENHANCEMENT

The proposed system can handle only 10 customers at a time not more than 10.

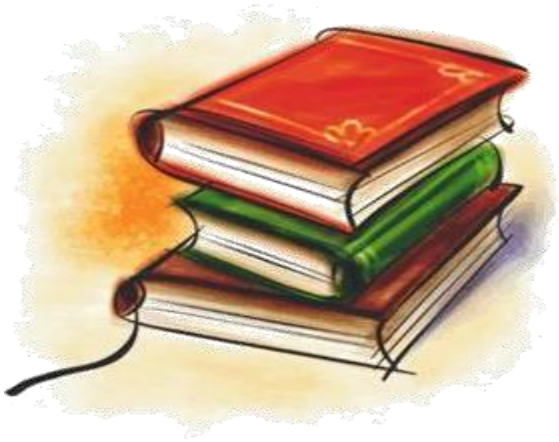
- If customer is regular his favorite menu items are not saved in the system for his future use.

CONCLUSION

This project will help many restaurants to grow up financially and digitally.it can save the lots of work of employees. Mainly it can save more paper work. Customer can get nice offers. Many waiters by default give wrong orders on wrong tables.

So, it can be also reduced. However, world changes we make changes in the system

BIBLIOGRAPHY



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